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- 1 [Optimal and approximate computation of summary statistics for range aggregates](#)
 Anna C. Gilbert, Yannis Kotidis, S. Muthukrishnan, Marin J. Strauss
 May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Full text available: [pdf\(188.97 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Fast estimates for aggregate queries are useful in database query optimization, approximate query answering and online query processing. Hence, there has been a lot of focus on "selectivity estimation", that is, computing summary statistics on the underlying data and using that to answer aggregate queries fast and to a reasonable approximation. We present two sets of results for range aggregate queries, which are amongst the most common queries.

First, we focus on a histog ...

- 2 [Maintenance of data cubes and summary tables in a warehouse](#)
 Inderpal Singh Mumick, Dallan Quass, Barinderpal Singh Mumick
 June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2

Full text available: [pdf\(1.58 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data warehouses contain large amounts of information, often collected from a variety of independent sources. Decision-support functions in a warehouse, such as on-line analytical processing (OLAP), involve hundreds of complex aggregate queries over large volumes of data. It is not feasible to compute these queries by scanning the data sets each time. Warehouse applications therefore build a large number of summary tables, or materialized aggregate views, to ...

- 3 [Query processing techniques in the summary-table-by-example database query language](#)
 Gultekin Özsoyoğlu, Victor Matos, Meral Özsoyoğlu
 December 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 4

Full text available: [pdf\(3.52 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Summary-Table-by-Example (STBE) is a graphical language suitable for statistical database applications. STBE queries have a hierarchical subquery structure and manipulate summary tables and relations with set-valued attributes. The hierarchical arrangement of STBE queries naturally implies a tuple-by-tuple subquery evaluation strategy (similar to the nested loops join implementation technique) which may not be the best query processing

strategy. In this paper we discuss the query ...

4 XML and architecture: DSQoS-distributed architecture providing QoS in summary warehouses

João Pedro Costa, Pedro Furtado

November 2003 **Proceedings of the 6th ACM international workshop on Data warehousing and OLAP**

Full text available:  pdf(305.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data warehouses (DW) that store enormous quantities of data put a major challenge in what concerns performance and scalability, as users request instant answers to their queries. Traditional solutions rely on very expensive architectures and structures for speedup and scale-up. The Summary Warehouse (SW) is an inexpensive solution that has the potential to deliver very fast approximate answers to aggregate queries using only general-purpose sampling summaries. Although summaries are expected to b ...

Keywords: OLAP, approximate query answering, data warehouse, sampling

5 Summary data: Modelling summary data

Rowland R. Johnson

April 1981 **Proceedings of the 1981 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(626.62 KB) Additional Information: [full citation](#), [abstract](#), [citations](#)

Several problems in specifying aggregate functions in relational systems are investigated. We propose a solution to these problems in the form of an extension of the relational data model. In particular we introduce the concept of summary data. The query language STRAND is presented in order to describe retrieval operations on the extended model. STRAND allows a user to formulate queries involving aggregate functions without conceptualizing the query in terms of aggregation. Two example applicat ...

6 On optimizing summary-table-by-example queries

Gultekin Özsoyoglu, Victor Matos

March 1985 **Proceedings of the fourth ACM SIGACT-SIGMOD symposium on Principles of database systems**

Full text available:  pdf(1.10 MB) Additional Information: [full citation](#), [references](#), [citations](#)

7 Research sessions: spatial data: Spatially-decaying aggregation over a network: model and algorithms

Edith Cohen, Haim Kaplan

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(358.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Data items are often associated with a location in which they are present or collected, and their relevance or influence decays with their distance. Aggregate values over such data thus depend on the observing location, where the weight given to each item depends on its distance from that location. We term such aggregation *spatially-decaying*. Spatially-decaying aggregation has numerous applications: Individual sensor nodes collect readings of an environmental parameter such as contaminatio ...

8 The aggregate data problem: a system for their definition and management

M. Rafanelli, A. Bezenchek, L. Tininini

December 1996 **ACM SIGMOD Record**, Volume 25 Issue 4

Full text available:  pdf(640.68 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In this paper we describe the fundamental components of a database management system for the definition, storage, manipulation and query of aggregate data, i.e. data which are obtained by applying statistical aggregations and statistical analysis functions over raw data. In particular, the attention has been focused on: (1) a data structure for the efficient storage and manipulation of aggregate data, called ADaS; (2) the graphical structures of the aggregate data model ADAMO for a more use ...

9 Data warehousing and OLAP: Semantic-based delivery of OLAP summary tables in wireless environments

Mohamed A. Sharaf, Panos K. Chrysanthis

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Full text available:  pdf(251.10 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


With the rapid growth in mobile and wireless technologies and the availability, pervasiveness and cost effectiveness of wireless networks, mobile computers are quickly becoming the normal front-end devices for accessing enterprise data. In this paper, we are addressing the issue of efficient delivery of business decision support data in the form of summary tables to mobile clients equipped with OLAP front-end tools. Towards this, we propose a new on-demand scheduling algorithm, called SBS ...

Keywords: broadcast pull, broadcast scheduling, mobile computing

10 A language and a physical organization technique for summary tables

Gultekin Ozsoyoglu, Z. Meral Ozsoyoglu, Francisco Mata

May 1985 **ACM SIGMOD Record , Proceedings of the 1985 ACM SIGMOD international conference on Management of data**, Volume 14 Issue 4


Full text available:  pdf(1.20 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Performance evaluation of the statistical aggregation by categorization in the SM3 system

C. K Baru, S. Y. W. Su

June 1984 **ACM SIGMOD Record , Proceedings of the 1984 ACM SIGMOD international conference on Management of data**, Volume 14 Issue 2

Full text available:  pdf(1.32 MB)


Additional Information: [full citation](#), [abstract](#), [references](#)

To perform a statistical aggregation operation over a large file often requires that the records of the file be divided into categories based on the values of the attribute(s) over which some statistical computation is to be performed. It is rather inefficient to perform the necessary data transfer, categorization and statistical computation using a single processor. Parallel algorithms designed for multiprocessor systems have been proposed and their performance improvement over the conventional ...

12 Extending relational algebra and relational calculus with set-valued attributes and aggregate functions

G. Özsoyoğlu, Z. M. Özsoyoğlu, V. Matos

November 1987 **ACM Transactions on Database Systems (TODS)**, Volume 12 Issue 4

Full text available:  pdf(1.80 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


In commercial network database management systems, set-valued fields and aggregate functions are commonly supported. However, the relational database model, as defined by Codd, does not include set-valued attributes or aggregate functions. Recently, Klug extended the relational model by incorporating aggregate functions and by defining relational algebra and calculus languages. In this paper, relational algebra and relational calculus database query languages (as defined by Klug) ...

13 Incremental update to aggregated information for data warehouses over Internet

Miranda Chan, Hong Va Leong, Antonio Si

November 2000 **Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP**Full text available:  pdf(248.52 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**Keywords:** Internet, aggregated information, data warehouse, distributed databases, incremental refresh and propagate**14 Online analytic processing (OLAP): QC-trees: an efficient summary structure for semantic OLAP**


Laks V. S. Lakshmanan, Jian Pei, Yan Zhao

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**Full text available:  pdf(375.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Recently, a technique called quotient cube was proposed as a summary structure for a data cube that preserves its semantics, with applications for online exploration and visualization. The authors showed that a quotient cube can be constructed very efficiently and it leads to a significant reduction in the cube size. While it is an interesting proposal, that paper leaves many issues unaddressed. Firstly, a direct representation of a quotient cube is not as compact as possible and thus still wast ...

15 Using aggregation and dynamic queries for exploring large data sets

Jade Goldstein, Steven F. Roth

April 1994 **Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence**Full text available:  pdf(928.46 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** data exploration, data visualization, graphics presentation, intelligent interfaces, interactive techniques, large data sets**16 Aspect-oriented programming: Supporting aggregation in fine grained software configuration management**

Mark C. Chu-Carroll, James Wright, David Shields

November 2002 **Proceedings of the tenth ACM SIGSOFT symposium on Foundations of software engineering**Full text available:  pdf(207.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Fine-grained software configuration management offers substantial benefits for large-scale collaborative software development, enabling a variety of interesting and useful features including complexity management, support for aspect-oriented software development, and support for communication and coordination within software engineering teams, as described in [4]. However, fine granularity by itself is not sufficient to achieve these benefits. Most of the benefits of fine granularity result from ...

Keywords: aggregation, dynamic program organization, fine grained storage

17

Session 6: aspect-oriented programming: Supporting aggregation in fine grained

software configuration management

Mark C. Chu-Carroll, James Wright, David Shields

November 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 6Full text available:  [pdf\(1.05 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Fine-grained software configuration management offers substantial benefits for large-scale collaborative software development, enabling a variety of interesting and useful features including complexity management, support for aspect-oriented software development, and support for communication and coordination within software engineering teams, described in [4]. However, fine granularity by itself is not sufficient to achieve these benefits. Most of the benefits of fine granularity result from th ...

Keywords: aggregation, dynamic program organization, fine grained storage

18 A universal-scheme approach to statistical databases containing homogeneous summary tables

Francesco M. Malvestuto

December 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 4Full text available:  [pdf\(2.00 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: bipartite graph, category relation, query-answering system, statistical database, summary table, universal classification scheme

19 Research sessions: indexing and tuning: Transaction support for indexed summary views


Goetz Graefe, Michael Zwilling

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**Full text available:  [pdf\(168.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Materialized views have become a standard technique for performance improvement in decision support databases and for a variety of monitoring purposes. In order to avoid inconsistencies and thus unpredictable query results, materialized views and their indexes should be maintained immediately within user transaction just like indexes on ordinary tables. Unfortunately, the smaller a materialized view is, the higher the concurrency contention between queries and updates as well as among concurrent ...

20 The derivation problem of summary data

F. M. Malvestuto

June 1988 **ACM SIGMOD Record , Proceedings of the 1988 ACM SIGMOD international conference on Management of data**, Volume 17 Issue 3Full text available:  [pdf\(899.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)





Given a statistical database consisting of two summary tables based on a common but not identical classification criterion (e.g., two geographical partitionings of a country) there are additional summary tables that are derivable in the sense that they are uniquely (i.e., with no uncertainty) determined by the tables given. Derivable tables encompass not only, of course, "less detailed" tables (that is, aggregated data) but also "more detailed" table ...

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... Because **aggregated** A is likely to deposit in senile plaques of AD and activates ... for A 42 , we examined the capacity of A 42 to cross-**desensitize** cell signaling ...

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[Frontiers in Bioscience 3, d746-756. July 28, 1998]

... no calcium response occurs in cells which clearly **desensitize** reinforces the ... subunits is not required for association of **aggregated** receptors to the ... 7. **SUMMARY**. ...

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... Alternative Mechanisms 7. **Summary** 8. References 1. ABSTRACT ... because the anti-IgE has **aggregated** all cell ... human IgE antibody does indeed **desensitize** the cell ...

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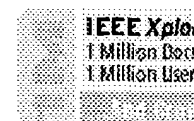
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1 New mechanism of the optical nonlinearity of metal colloidal aggregates

Perminov, S.V.; Kuch'yanov, A.S.; Rautian, S.G.; Safonov, V.P.; Drachev, V.P.; Khaliullin, E.N.; Armstrong, R.L.;

Quantum Electronics and Laser Science Conference, 2002. QELS '02. Technical Digest. Summaries of Papers Presented at the , 19-24 May 2002
Pages:256 - 257

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